

NACE In-Line Inspection Activities

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OPS Public Meeting

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In-Line Inspection Report

- In-line inspection (ILI) technology used for many years (late 1960s)
- NACE Task Group 039 developed NACE Publication 35100, “In-Line Nondestructive Inspection of Pipelines”
 - Published in 2000
 - Information in report led to standard

In-Line Inspection Report

- Covers many types of in-line inspection tools, “intelligent” or “smart” pigs
- Analyzes available and emerging technologies
- Characteristics, performance, range of application, and limitations
- Input from many groups, e.g., API

In-Line Inspection Report

- Types of in-line inspection tools
- Decision-making process
- Cost/benefit
- Operational issues
- Results of ILI
- Data management
- Extensive reference list by topic

In-Line Inspection Report

- Appendices
 - Glossary
 - Abbreviations
 - Acronyms
 - Typical specifications
 - Preparing for an inspection
 - Launching and receiving procedures

In-Line Inspection Report

- NACE technical committee reports
 - Results of research
 - State of the art
 - No requirements
 - No recommendations
- Information in report often leads to standard

In-Line Inspection Standard

- TG 212 developed NACE Standard RP0102-2002, “In-Line Inspection of Pipelines”
- Process of related activities an operator can use to plan, organize, and execute an ILI project
- ILI data management and data analysis

In-Line Inspection Standard

- Applies to carbon steel pipeline systems transporting
 - Natural gas
 - Hazardous liquids
 - Carbon dioxide
 - Water including brine
 - Liquefied petroleum gases
 - Others not detrimental to ILI tools

In-Line Inspection Standard

- Definitions
- Tool selection
- ILI compatibility assessment
- Logistical guidelines
- Inspection scheduling
- New construction—planning for ILI surveys
- Data analysis requirements
- Data management

In-Line Inspection Standard

- References (short list)
- Appendix
 - Pipeline Inspection Questionnaire
 - Figure—plan view of generic pig trap
- Body includes table listing types of ILI tools and inspection purposes

In-Line Inspection Standard

- American National Standards Institute (ANSI) process
- NACE accredited by ANSI
- Input solicited from all interested and affected parties
- Nonmembers can request ballot and vote
- All meetings open

In-Line Inspection Standard

- Upcoming ballots noted on Web site
- RP0102 under revision, due in 2007
- 5-year review of standards ANSI and NACE requirements
- Standards may be revised at any time, completed before 5 years elapsed
- Original TG reactivated, but may change

In-Line Inspection Standard

Corrosion Technology Week/2005, Calgary

- Task Group 212 (revising ILI standard) meeting Tuesday, September 20, 9:30-11 a.m.
- Technology Exchange Group (TEG) 267X on Pipelines: In-Line Inspection meeting Tuesday, September 20, 8 to 9:30 a.m. The TEG may suggest revisions to the standard.

In-Line Inspection Course

- Under development by NACE
- Watch the NACE Web site for more information!

www.nace.org

